CLAIMS
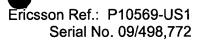
1. (Canceled)

2. (Previously presented) The channel selection method of claim 8 wherein said frequency of performing said channel quality measurements is a function of the relative position of said mobile station with respect to a first base station serving said mobile station.

3. (Currently Amended) A method of channel selection for a mobile station comprising:

determining a position of said mobile station;

periodically performing channel quality measurements of signals transmitted from one or more base stations, wherein the frequency of performing said channel quality measurements is a function of based on said position of said mobile station independent of the speed of said mobile station; and

wherein said frequency of performing said channel quality measurements is a function of the relative position of said mobile station with respect to a first base station serving said mobile station and at least one additional base station.

4. (Currently Amended) The channel selection method of claim 3 wherein said the position of said at least one additional base station is transmitted to said mobile station by said first base station.

5. (Previously presented) The channel selection method of claim 4 wherein the position of said at least one additional base station is included in a neighbor list transmitted to said mobile station by said first base station.
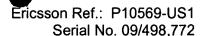
6-7. (Canceled)

8. (Previously presented) A method of channel selection for a mobile station comprising:

determining a position of said mobile station;

periodically performing channel quality measurements of signals transmitted from one or

more base stations, wherein the frequency of performing said channel quality

measurements is a function of said position of said mobile station; and

wherein said frequency of performing said channel quality measurements is a function of the

length of time said mobile station remains in said position.

9. (Previously presented) The channel selection method of claim 8 wherein said channel quality

measurements are performed by said mobile station while said mobile station is in an idle mode.

10. (Previously presented) The channel selection method of claim 3 wherein said channel

quality measurements are performed by said mobile station while said mobile station is engaged

in a packet switched call.

11. (Previously presented) The channel selection method of claim 3 wherein said channel

quality measurements are performed by said mobile station while said mobile station is engaged

in a circuit switched call.

12. (Previously presented) The channel selection method of claim 3 wherein said mobile station

uses said channel quality measurement for cell reselection.

13. (Previously presented) The channel selection method of claim 3 further including

transmitting said channel quality measurements from said mobile station to a first base station

serving said mobile station.

14. (Original) The channel selection method of claim 13 further including making hand-off

determinations at said first base station based on said channel quality measurements.

15. (Original) A method of determining the position of a mobile station comprising:

determining a position of said mobile station at a first time instant; and

updating said position periodically, wherein a frequency of said updating is a function of said position of said mobile station.

16. (Original) The method of claim 15 wherein said frequency of updating said position is a function of the relative position of said mobile station with respect to a first base station serving said mobile station.

17. (Currently Amended) The method of claim 15 wherein said frequency of updating said position is a function of the relative position of said mobile station with respect to a first base station serving said mobile station and at least one ~~of said~~ additional base station.

18. (Currently Amended) The ~~channel selection~~ method of claim 17 wherein the position of said at least one additional base station is transmitted to said mobile station by said first base station.

19. (Original) The method of claim 18 wherein said position of said at least one additional base station is included in a neighbor list transmitted to said mobile station by said first base station.

20. (Original) The method of claim 15 wherein said frequency of updating said position is a function of the mobility of said mobile station.

21. (Currently amended) The method of claim 20 wherein said frequency of updating said position is a function <u>of</u> the rate of change of said position of said mobile station.

22. (Currently amended) The ~~channel selection~~ method of claim 20 wherein said frequency of updating said position is a function of the length of time said mobile station remains in said position.

23. (Original) The method of claim 15 wherein said updating is performed by said mobile station while said mobile station is in an idle mode.

24. (Original) The method of claim 15 wherein said updating is performed by said mobile station while said mobile station is engaged in a packet switched call.

25. (Original) The method of claim 15 wherein said updating is performed by said mobile station while said mobile station is engaged in a circuit switched call.

26. (Original) The method of claim 15 further including transmitting position information from said mobile station to said base station.

27-31. (Canceled)

32. (Previously presented) The mobile station of claim 36 wherein said control logic varies the frequency of performing said channel quality measurements based on the relative position of said mobile station with respect to a first base station serving said mobile station.

33. (Currently Amended) A mobile station comprising:

a transceiver for transmitting and receiving to transmit and receive radio frequency signals;

a signal processor operatively connected to said transceiver for to periodically performing

perform channel quality measurements on selected signals received by said transceiver;

control logic for controlling to control said signal processor and said transceiver to vary the

frequency of performing said channel quality measurements as a function of based on

the position of said mobile station independent of the speed of said mobile station; and

wherein said control logic varies the frequency of performing said channel quality

measurements based on the relative position of said mobile station with respect to a first

base station serving said mobile station and at least one additional base station.

34-35. (Canceled)

36. (Currently Amended) A mobile station comprising:

a transceiver ~~for transmitting and receiving~~ to transmit and receive radio frequency signals;

a signal processor operatively connected to said transceiver ~~for~~ to periodically ~~performing~~ perform channel quality measurements on selected signals received by said transceiver;

control logic ~~for controlling~~ to control said signal processor and said transceiver to vary the frequency of performing said channel quality measurements as a function of the position of said mobile station; and

wherein said control logic varies the frequency of performing said channel quality measurements based on the length of time said mobile station remains in said position.

37. (Currently Amended) The mobile station of claim 33 further including a positioning receiver ~~for determining~~ to determine the position of said mobile station.

38. (Original) A mobile station comprising:

a transceiver transmitting and receiving radio frequency signals;

a positioning receiver periodically determining a position of said mobile station;

control logic controlling said transceiver and said positioning receiver, wherein said control

logic varies the frequency of determining said position of said mobile station as a

function of said position.

39. (Original) The mobile station of claim 38 wherein said control logic varies the frequency of determining said position of said mobile station based on the relative position of said mobile station with respect to a first base station serving said mobile station.

40. (Original) The mobile station of claim 38 wherein said control logic varies the frequency of determining said position of said mobile station based on the relative position of said mobile station with respect to a first base station serving said mobile station and at least one additional base station.

41. (Original) The mobile station of claim 38 wherein said control logic varies the frequency of determining said position of said mobile station based on the mobility of said mobile station.

42. (Original) The mobile station of claim 38 wherein said control logic varies the frequency of determining said position of said mobile station based on the rate of change of said position of said mobile station.

43. (Original) The mobile station of claim 38 wherein said control logic varies the frequency of determining said position of said mobile station based on the length of time said mobile station remains in said position.

44. (Canceled)

45. (Previously presented) The control method of claim 49 wherein said frequency of performing said periodic task is a function of the relative position of said mobile station with respect to a first base station serving said mobile station.

46. (Currently Amended) A method of controlling a mobile station comprising:

determining a position of said mobile station;

performing a periodic task, wherein the frequency of performing said task is ~~a function of~~ based on said position of said mobile station independent of the speed of said mobile station; and

wherein said frequency of performing said periodic task is a function of the relative position of said mobile station with respect to a first base station serving said mobile station and at least one additional base station.

47-48. (Canceled)

49. (Previously presented) A method of controlling a mobile station comprising:

determining a position of said mobile station;

performing a periodic task, wherein the frequency of performing said task is a function of said position of said mobile station; and

wherein said frequency of performing said periodic task is a function of the length of time said mobile station remains in said position.